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Remarks

It is observed that the Examiner still rejected claims 1-16 as containing subject-matter which was not described in the specification.

In particular, the Examiner still said that:

- a) it is not clear how the components connected as described in the specification and figures 2-3 results in the complex signal converted from the real signal;
- b) the function of the first adder is not clear;
- c) the operation of the selector is not clear;
- d) the function of the multipliers is not clear.
- e) it is not clear why the selector select selects the "I" branch for a period of four times the band-center frequency of the incoming signal while selects the "Q" branch for a period of two times the band-center frequency of the incoming signal.

With regard to the latter point (item "e"), the applicant realized that an error occurred while drafting the specification. In fact, no reason can be imagined why the I branch must be selected for a period twice the period of the Q branch. Obviously, the periods for the I and Q branches must be the same, as correctly indicated by the Examiner.

This error occurred inadvertently and the applicant is confident that it will be considered as such by the Examiner. In addition, such error did not affect the scope of claim 1.

However, thanks to the Examiner's indication, the applicant now submits amended passages of the specification and an amended version of the claims where such error has been amended.

If the Examiner looks at the remarks pages submitted with the applicant's last letter, it should be clear that the selector sends the signal for a period equal to twice the band-center frequency of the signal to be converted (as also originally claimed in the claims).

The passage of the specification on page 3, lines 19-25 has been amended and its amended version is herewith enclosed.

As to the Examiner's objections according to which the figures in the remarks section ("Test signal" and "Added wave") show the frequency of the test signal to be greater than the frequency of the added wave, it should be observed that the two scales of the two figures are not the same and thus the frequencies cannot be compared at sight.

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In fact, the scale of the X-axis of the Test signal goes up to "7000" while the scale of the X-axis of the "Added wave" goes up to "300".

This is why the Examiner did not appreciate that the frequency of the added wave is really four times the band-center frequency of the real signal.

Now the point should be completely clarified.

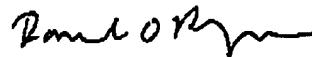
The Examiner also maintained that the waveforms I<sub>filtered</sub> and Q<sub>filtered</sub> do not seem to be in quadrature. However, from the graphs that the applicant submitted in his last letter those waveforms do really appear to be in quadrature (see graphs of page 10 of the applicant's last letter). Perhaps the Examiner was misled by the fact that the graphic representation of the signal is not a mathematical reconstruction of the signal and small errors may give rise to really small deviations from a real quadrature trend between the two signals. However, without any doubt the two signals are in quadrature and any skilled man in the art could confirm that looking at the graphs that had been submitted by the applicant

Further details will be clarified on the phone as suggested by the Examiner.

It will be noted that a sincere effort has been made to positively respond to all of the points raised by the Examiner.

While it is believed that the amended claims properly define the present invention, applicant would be open to any suggestion the Examiner may have concerning different claim phraseology which, in the Examiner's opinion, more accurately defines the present invention.

Respectfully submitted,



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